

REMARKS

Applicant respectfully requests reconsideration of the present application in view of the foregoing amendments and in view of the reasons that follow.

Status of Claims:

Claims 16 and 17 are currently being cancelled.

Claims 1, 2, 4, 6, 9, 10, 12, 13 and 15 are currently being amended.

Claim 18 is currently being added.

This amendment and reply amends, adds and cancels claims in this application. A detailed listing of all claims that are, or were, in the application, irrespective of whether the claims remain under examination in the application, is presented, with an appropriate defined status identifier.

After amending, adding and canceling the claims as set forth above, claims 1-15 and 18 are now pending in this application.

Claim Rejections – Prior Art:

In the Office Action, claim 1-17 were rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 6,049,449 to Komatsu in view of U.S. Patent No. 5,490,165 to Blakeney et al. This rejection is traversed with respect to the presently pending claims under rejection, for at least the reasons given below.

In Blakeney et al., a frequency offset is estimated by using correlation values, as described in column 9, lines 48-55 of that reference. On the other hand, in the presently claimed invention, the frequency offset is estimated by using the correlation values or power values. See, for example, page 10, lines 29-30 of the specification.

Blakeney et al. does not disclose or suggest the estimating of a frequency offset by using power values. Accordingly, since Komatsu does not rectify the above-mentioned shortcomings of Blakeney et al., all of the presently pending claims under rejection are patentable over the cited art of record.

Please note that power values are used in the present invention since the power value has a larger signal strength than the correlation value, as explained on page 18, lines 28-35 of

the specification. Accordingly, the frequency offset can be estimated with higher precision by the use of power values.

As mentioned above, the presently pending claims are patentable over the combination of Komatsu and Blakeney et al.

New Claim:

New independent claim 18 has been added, whereby this claim is believed to patentable distinguish over the cited art of record. For example, claim 18 recites a symbol integrating unit which receives said correlation values output by said correlation unit, and which inversely modulates said symbols with predetermined data and calculates said power values as said in-phase addition values of said symbols values while correcting phases of either said symbols or said power values based on said phase change quantities provided to said symbol integrating unit by said frequency offset estimating section. Such features are lacking in the combined teachings of Komatsu and Blakeney.

Conclusion:

Since all of the issues raised in the Office Action have been addressed in this Amendment and Reply, Applicant believes that the present application is now in condition for allowance, and an early indication of allowance is respectfully requested.

The Examiner is invited to contact the undersigned by telephone if it is felt that a telephone interview would advance the prosecution of the present application.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 C.F.R. §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741. If any extensions of time are needed for timely acceptance of papers submitted herewith, Applicant hereby petitions for such extension under 37 C.F.R. §1.136 and authorizes payment of any such extensions fees to Deposit Account No. 19-0741.

Respectfully submitted,

Date March 30, 2006

By Phillip J. Articola

FOLEY & LARDNER LLP
Customer Number: 22428
Telephone: (202) 672-5407
Facsimile: (202) 672-5399

David A. Blumenthal
Registration No. 26,257

Phillip J. Articola
Registration No. 38,819